

## Amendments to the specification

Please amend the specification at page 44, line 22, by adding the following new paragraphs:

*Example 12. Exemplary computer code.* Exemplary computer code from the file “Input\_output\_dev.pm” corresponding to displays such as shown in Figures 7-12:

```
# PRINT THE CUTOFF POPUP MENU
@formerrows = ();

push (@formerrows, th("DATA:") . th(font({
    -color=>'yellow'},$global{"data_name"})) );

push (@formerrows, th("DISPLAY:") . th(popup_menu(
    -name=>'view',
    -value=>['Threshold','Interval','Graphical'],
    -default=>'Graphical')));

push (@formerrows, th("CALCULATE:") . th(popup_menu(
    -name=>'calc_method',
    -value=>['by Accession','by SNPs'],
    -default=>'by Accession')));

push (@formerrows, th("CORRELATE:") . th(popup_menu(
    -name=>'correl_method',
    -value=>['Weighted','Unweighted'],
    -default=>'Weighted')));

push (@formerrows, th("CUTOFF:") . th(popup_menu(
    -name=>'cutoff',
    -value=>['5%','10%','15%','20%','25%','30%','40%',
              '50%','NONE'],
    -default=>'20%')));

push (@formerrows, th("WINDOW (cM):") . th(popup_menu(
    -name=>'window_size',
    -value=>['10','20','30','40','50'],
    -default=>'30')));

print center table ({-border=>'2', -align=>CENTER, -
bgcolor=>'black'}, Tr(\@formerrows)), p, p;
```

Exemplary computer code from the file “Input\_output\_dev.pm” for displaying the cutoff line that is found in any of Figures 7-12:

```
# DRAW PCT CUTOFF LINE
DrawPct_Cut ($closest_pct_value, $im);
    $png_data = $im->png;
    $global{"timestamp"} = time;
    open (DISPLAY,>$image_dir/$global{'timestamp'}.png");
    binmode DISPLAY;
    print DISPLAY $png_data;
```

```
        close DISPLAY;
}
sub DrawPct_Cut ($closest_pct_value, $im)
{
my $pct = $_[0];
my $image = $_[1];

$image->dashedLine($indent+15, $pct, $length, $pct,
$cOLOR{"orange"});
$image->dashedLine($indent+15, $pct+1, $length, $pct+1,
$cOLOR{"orange"});
#$image->dashedLine($indent+15, $pct+2, $length, $pct+2,
$cOLOR{"orange"});
$image->string(gdGiantFont, $indent+5, $pct-14,
$global{'cutoff'}, $color{"orange"});
}
```